

15 JUN 1979

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MEMORANDUM FOR: Chief, Plans & Programs Staff, OL

VIA : Chief, Real Estate & Construction
Division, OL

FROM :
Chief, Headquarters Engineering
Branch, RECD/OL

SUBJECT : Annual Report on Energy Management

REFERENCE : (a) Memo dtd 5 Mar '79 fm C/P&PS/OL
to C/RECD/OL, Subj: Reduction in
Energy Use

(b) Memo dtd 11 Jul '79 fm C/HEB/RECD/OL
to C/P&PS/OL, Subj: Reduction in
Energy Use

1. This memorandum is in response to your request for an annual energy management report as stated in paragraph 5 of reference (a).

2. As the first annual report on energy management, reference (b) described the limited extent to which the Central Intelligence Agency in its tenant status can influence the energy management of a facility that is under control of either the General Services Administration (GSA) or, in the case of a leased building, the building owner. Secondly, it offered some general commentary about the reactions by some of the people whose work areas were energy managed into a range of personal discomfort or irritation. Third, it outlined the role of the Real Estate & Construction Division to interface with GSA in the Agency's interest. Those background conditions continue to be applicable to this second annual energy management report.

3. In an effort to manage energy within the purview of the Real Estate & Construction Division, a number of activities and studies involving capital improvement have been initiated to both increase system efficiency and save energy. As examples:

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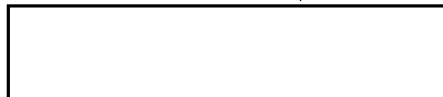
(a) The design of an Agency funded project to install a small boiler in the Powerplant has been started under a GSA contract. It is intended that the small boiler would be used during those periods when the steam required falls below the range of efficiency of one of the large boilers. The small boiler could operate with a large boiler or by itself to more efficiently meet the steam requirements.

(b) A GSA contract to upgrade outside air dampers and controls, designed with CIA funds, has been let with the work scheduled to start this summer.

(c) A study has been started to examine the efficiency of installing small packaged boilers near the kitchen area and in the Printing & Photography Building which, when combined with small electric water heaters for special processors, would supply critical needs for hot water. Operating this equipment only during the hot months of the year when ambient water temperatures are highest, an energy savings may be realized as the Powerplant and the transmission lines could then be secured.

(d) A study has been started to examine the energy savings that may be associated with closing the Director's garage. This is a facility which, during the winter, draws in cold outside air for automotive fume ventilation, heats that air to preclude the freezing of chilled water pipes, and then exhausts that warmed air to the atmosphere.

4. The sheet entitled "Energy Conservation" shows improvement for the years FY-75 through FY-78 though fuel oil consumption for the boilers increased for FY-78, probably because of the colder than average winter during that period.



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ENERGY CONSERVATION

| <u>FY 75</u> | <u>FY 76</u> | <u>FY 77</u> | <u>FY 78</u> |
|------------------------------|--|--|--|
| 63,330,700 Kilowatt Hours | 60,394,000 Kilowatt Hours (4.6% Reduction) | 68,348,000 Kilowatt Hours (13.2% Increase) | 62,006,000 Kilowatt Hours (9.3% Reduction) |
| 1,448,974 Gallons | 1,400,383 Gallons (3.3% Reduction) | 1,221,112 Gallons (12.8% Reduction) | 1,410,382 Gallons (15.5% Increase) |